

Listing of Claims:

The following listing of claims will replace all prior versions and listings of claims in this application:

1.-19. (Cancelled)

20. (Currently Amended) A method of operating a plurality of code division multiple access cellular radiotelephone base stations, the method comprising the steps of:
communicating between the plurality of base stations and radiotelephones using a common plurality of spreading codes, wherein each base station uses the common plurality of spreading codes; and

allocating cellular radiotelephone frequencies among said plurality of base stations according to a first frequency allocation system for a first one of said spreading codes and according to a second frequency allocation system different from said first frequency allocation system for a second one of said spreading codes.

21. (Original) A method according to Claim 20 wherein said step of allocating is preceded by a step of synchronizing said plurality of spreading codes among said plurality of base stations so that said periods of said plurality of spreading codes are concurrent, to produce synchronized spreading codes among said plurality of base stations.

22.-29. (Cancelled)

30. (Previously Presented) The method according to Claim 20, further comprising the step of synchronizing said common plurality of spreading codes.

31. (Previously Presented) The method according to Claim 20, wherein the first frequency allocation system comprise a first frequency reuse pattern, and wherein the second frequency allocation system comprises a second frequency reuse pattern.

32. (Currently Amended) A method of operating a code division multiple access (CDMA) wireless communications system that includes a plurality of cells, the method comprising:

allocating frequencies for use in the plurality of cells such that respective different frequency allocations are provided for respective first and second spreading codes used in each of the cells, wherein the step of allocating frequencies for use in the plurality of cells comprises:

applying a first frequency reuse pattern for the first spreading code; and
applying a second frequency reuse pattern for the second spreading code.

33. (Canceled)

34. (Previously Presented) The method according to Claim 32, wherein the step of allocating comprises:

adaptively allocating frequencies for use with the first spreading code according to a first adaptive allocation scheme; and

adaptively allocating frequencies for use with the second spreading code according to a second adaptive allocation scheme.

35. (Previously Presented) The method according to Claim 32 wherein said first and said second spreading codes comprises one of a plurality of direct-sequence-modulation codes, a plurality of frequency-hopping codes, and a plurality of combined frequency-hopping/direct-sequence-modulation codes.

36. (Currently Amended) A cellular radiotelephone system comprising:
a plurality of code division multiple access (CDMA) cellular radiotelephone base stations that communicate with cellular radiotelephones on a plurality of frequencies, the base stations each using a common plurality of spreading codes and using frequencies that are allocated among said plurality of base stations such that frequencies are allocated for a first one of said spreading codes according to a first frequency allocation system and are allocated for a second one of said spreading codes according to a second frequency allocation system different from said first frequency allocation system.

37. (Previously Presented) The system according to Claim 36 wherein said common plurality of spreading codes is one of a plurality of direct-sequence-modulation codes, a plurality of frequency-hopping codes, and a plurality of combined frequency-hopping/direct-sequence-modulation codes.

38. (Previously Presented) The system according to Claim 36, wherein said first frequency allocation has a number of subscribers, and wherein said plurality of code division multiple access (CDMA) cellular radiotelephone base stations operate responsive to said number of subscribers of said first frequency allocation system such that cellular radiotelephone frequencies are allocated among said plurality of base stations according to said first frequency allocation system for a third one of said synchronized spreading codes.

39. (Currently Amended) A code division multiple access (CDMA) wireless communications system, comprising:
a plurality of cells; and
a code reuse partitioning circuit operative to allocate frequencies for use in the plurality of cells such that respective different frequency allocations are provided for respective first and second spreading codes used in each of the cells.

40. (Previously Presented) The system according to Claim 39, wherein the code reuse partitioning circuit is operative to apply a first frequency reuse pattern for a first spreading code and to apply a second frequency reuse pattern for a second spreading code.

41. (Previously Presented) The system according to Claim 40, wherein the code reuse partitioning circuit is operative to adaptively allocating frequencies for use with the first spreading code according to a first adaptive allocation scheme and to adaptively allocating frequencies for use with the second spreading code according to a second adaptive allocation scheme.

42. (Previously Presented) The system according to Claim 40, wherein first spreading code and the second spreading code comprises one of a plurality of direct-sequence-modulation codes, a plurality of frequency-hopping codes, and a plurality of combined frequency-hopping/direct-sequence-modulation codes.